

INTERNATIONAL SEARCH REPORT

International application No.

PCT/SE 2004/001810

A. CLASSIFICATION OF SUBJECT MATTER

IPC7: C23C 14/08, C23C 14/56, C23C 30/00, H01L 31/02, H01M 6/00
According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC7: C23C, H01L, H01M

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

SE,DK,FI,NO classes as above

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

EPO-INTERNAL, WPI DATA, IEEE, CA

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 03048402 A1 (ATI PROPERTIES, INC.), 12 June 2003 (12.06.2003), page 4, line 21 - page 7, line 23; page 44, line 8 - line 18, claims 25,27, abstract --	1-2,15
X	PATENT ABSTRACTS OF JAPAN vol 009, no 317 12 December 1985 (1985-12-12) & JP60149778 A (MITSUI ENG & SHIPBUILDING CO) 07 August 1985 (1985-08-07) abstract --	1-14

☒ Further documents are listed in the continuation of Box C.☒ See patent family annex.

* Special categories of cited documents

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier application or patent but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance: the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance: the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&" document member of the same patent family

Date of the actual completion of the international search

19 May 2005

Date of mailing of the international search report

20-05-2005

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Swedish Patent Office

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C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	<p>DATABASE WPI Week 198538 Derwent Publications Ltd., London, GB; Class M13, AN 1985-232635, & JP 60149778 A (MITSUI ENG & SHIPBUILDING CO), 07 August 1985 (1985-08-07) abstract</p> <p>--</p>	1-14
X	<p>EP 0416887 A2 (NIPPON STEEL CORPORATION), 13 March 1991 (13.03.1991), page 2, line 52 - page 3, line 14; page 3, line 55 - page 6, line 41</p> <p>--</p>	1-10,14
X	<p>US 4519339 A (MASATSUGU IZU ET AL), 28 May 1985 (28.05.1985), column 1, line 60 - column 4, line 28, figures 1,2,6</p> <p>--</p>	1,15
X	<p>DATABASE WPI Week 199505 Derwent Publications Ltd., London, GB, Class H06, AN 1995-032418 & JP 6315641 A, (TOYO RADIATOR CO LTD) 15 November 1994 (1994-11-15) abstract</p> <p>--</p>	1-10,14
X	<p>US 3920583 A (STANLEY FREDERICK PUGH), 18 November 1975 (18.11.1975), column 1, line 1 - line 32; column 3, line 34 - line 40</p> <p>--</p>	1-10,14
X	<p>PATENT ABSTRACTS OF JAPAN vol. 016, no.518, 26 October 1992 (1992-10-26) & JP 4193968 A (KOBE STEEL LTD) 14 July 1992 (1992-07-14) abstract</p> <p>--</p>	1,7-11

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Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 5510008 A (JAINAGESH A. SEKHAR ET AL), 23 April 1996 (23.04.1996), column 2, line 17 - line 56 --	2
A	WO 03007386 A1 (MIDWEST RESEARCH INSTITUTE), 23 January 2003 (23.01.2003), page 1, line 6 - line 9; page 3, line 11 - page 5, line 19, figure 1, abstract --	1-15
A	US 4585537 A (TAKEHISA NAKAYAMA ET AL), 29 April 1986 (29.04.1986), column 4, line 22 - line 33, abstract --	1-15
A	Takya Satoh et al., "Cu(In,Ga)Se ₂ solar cells on stainless steel substrates covered with insulating layers", Solar Energy Materials and Solar Cells, Volume 75, Issues 1-2, January 2003, Pages 65-71 Living Environment Development Center, Matsushita Electric Industrial Co., Ltd., Kyoto, Japan --	1-15
A	K. Herz, et al., "Diffusion barriers for CIGS solar cells on metallic substrates", Thin Solid Films Volumes 431-432, 1 May 2003, Pages 392-397, Zentrum für Sonnenenergie- und Wasserstoff-Forschung (ZSW), Stuttgart, Germany --	1-15
A	K. Herz et al., "Dielectric barriers for flexible CIGS solar modules", Proceedings of Symposium P on Thin Film Materials for Photovoltaics, Thin Solid Films, Volumes 403-404, 1 February 2002, Pages 384-389, Zentrum für Sonnenenergie- und Wasserstoff-Forschung (ZSW), Stuttgart, Germany, Institut für Plasmaforschung (IPF) der Universität Stuttgart, Stuttgart, Germany --	1-15

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C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	S.LINDEROTH et al; "INVESTIGATIONS OF Fe-Cr FERRITIC STEELS AS SOFC INTERCONNECT MATERIAL" Materials Research Society; vol 575, 2000 --	1-15
E	WO 2005015645 A1 (SANDVIK AB), 17 February 2005 (17.02.2005), the whole document -- -----	1-15

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				EP	0478010	A,B	01/04/1992
				SE	0478010	T3	
				JP	60119784	A	27/06/1985
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